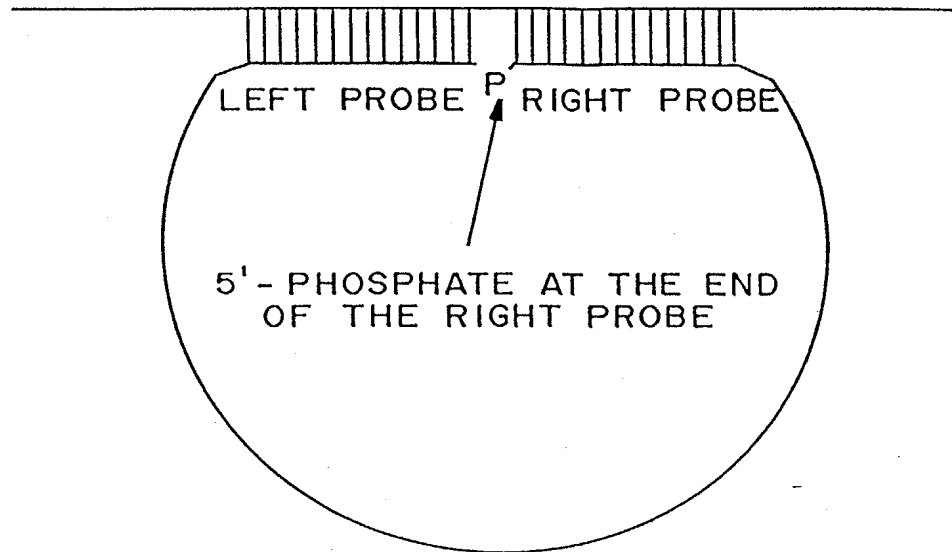


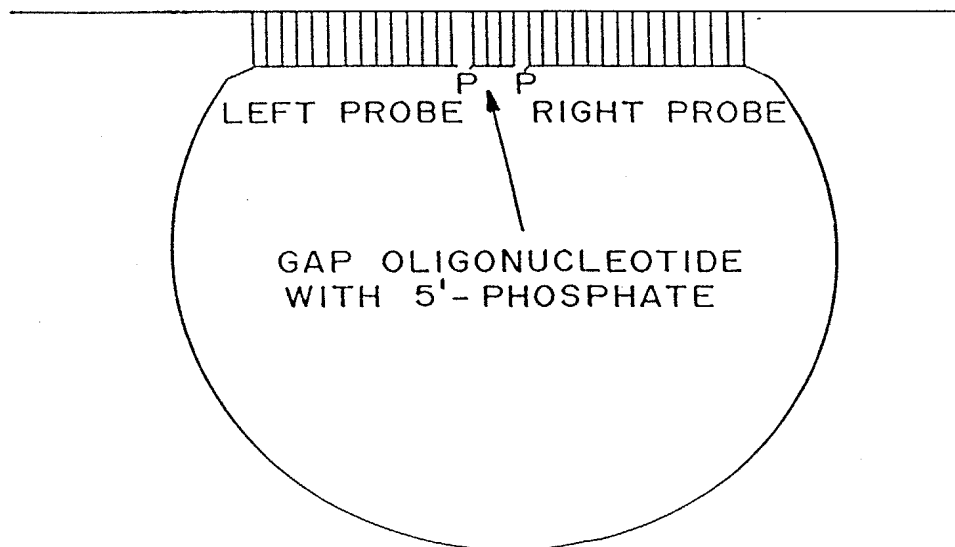
SINGLE-STRANDED TARGET



OPEN CIRCLE PROBE

FIG. 1

SINGLE-STRANDED TARGET



OPEN CIRCLE PROBE

FIG. 2

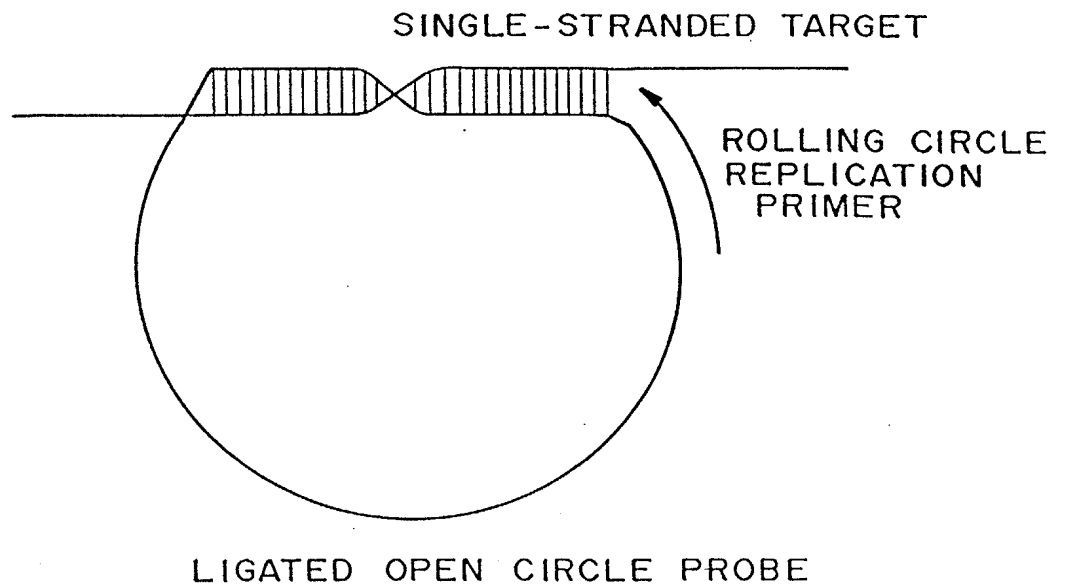


FIG. 3

ROLLING CIRCLE AMPLIFICATION

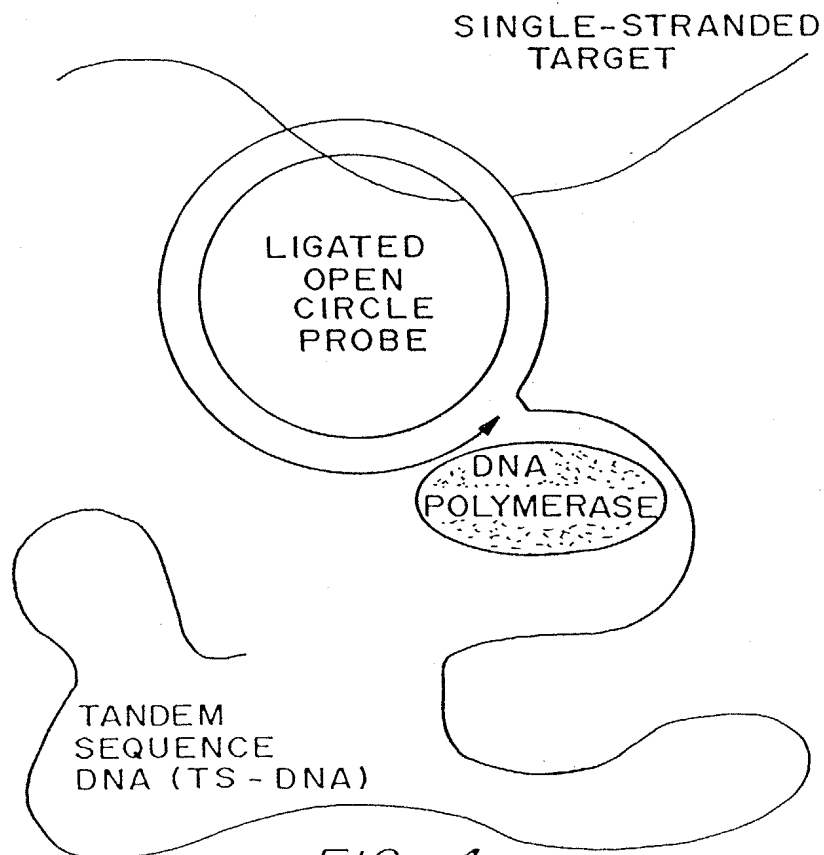
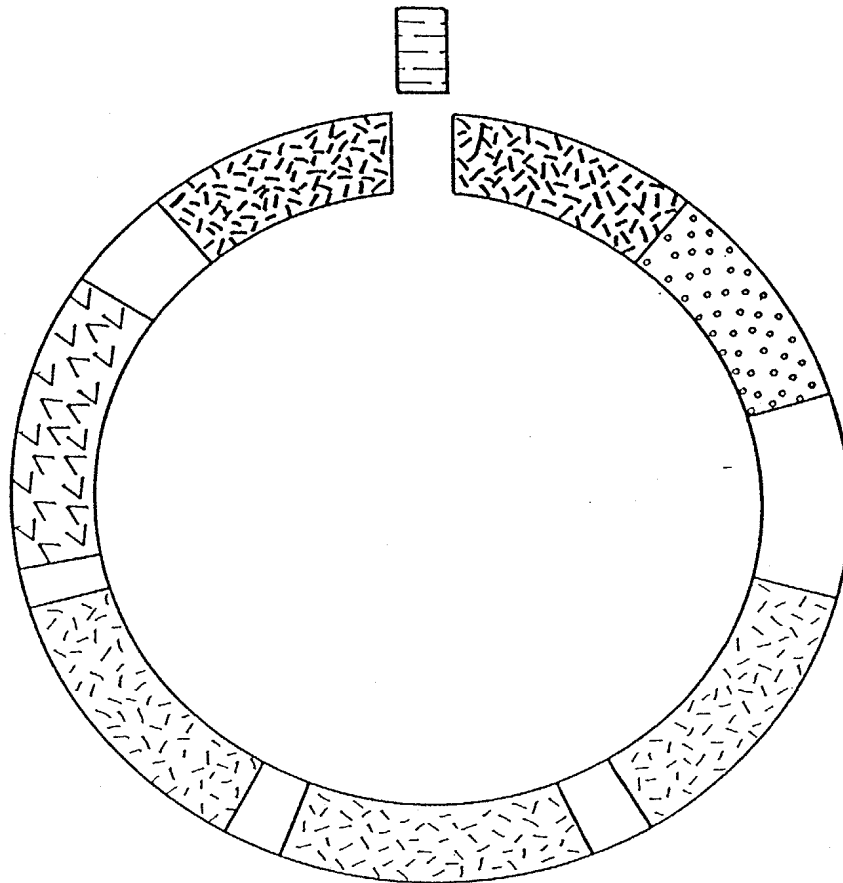


FIG. 4

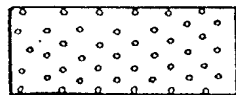
OPEN CIRCLE PROBE



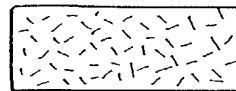
= TARGET PROBE (LEFT AND RIGHT
TARGET PROBES)



= PROMOTER



= PRIMER COMPLEMENT



= DETECTION TAGS (OR SECONDARY
TARGETS)



= GAP OLIGONUCLEOTIDE

FIG. 5

ADDRESS PROBE HYBRIDIZING TO TS-DNA PORTION
BRIDGING GAP OLIGONUCLEOTIDE AND TARGET PROBE ENDS

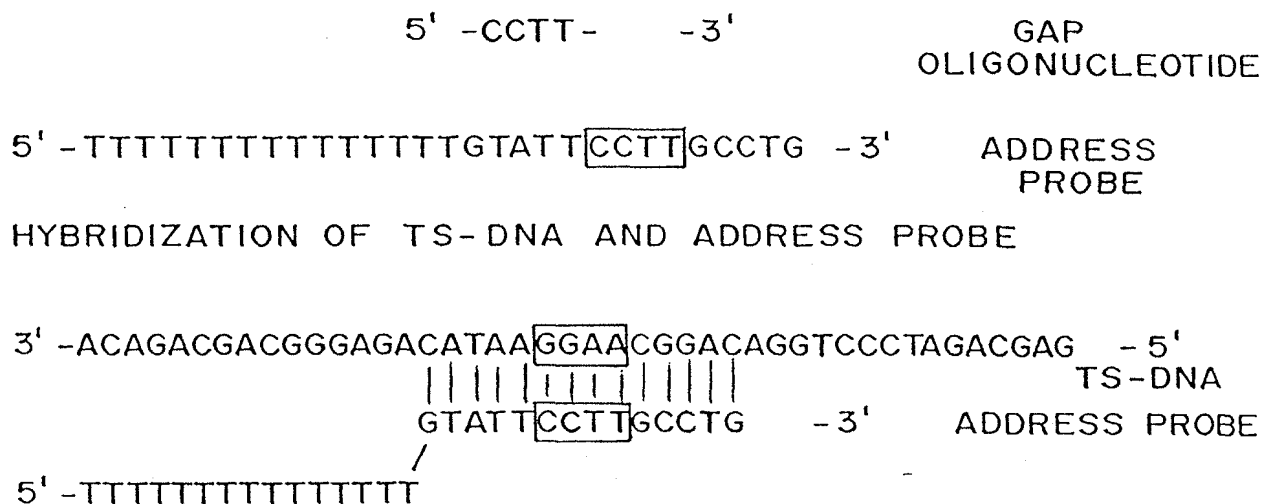


FIG. 6

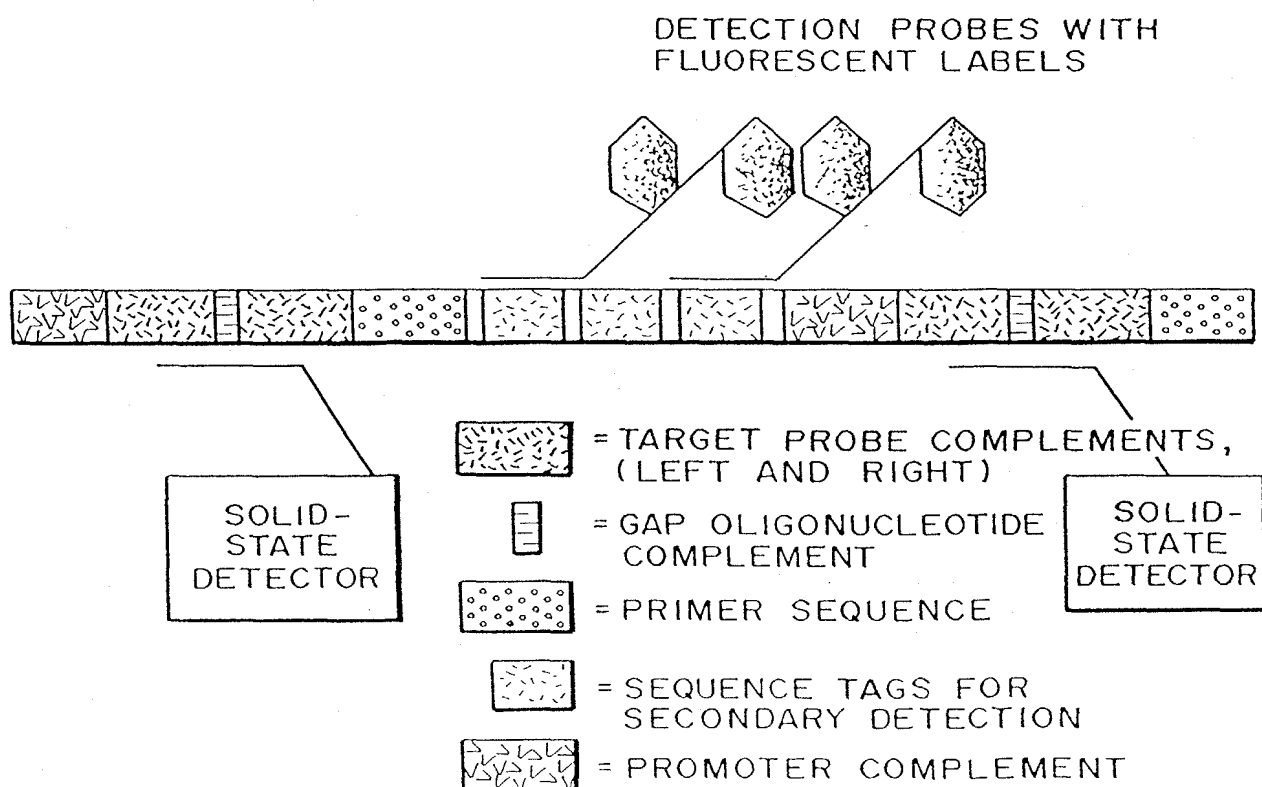


FIG. 7

LM-RCA FOLLOWED BY TRANSCRIPTION

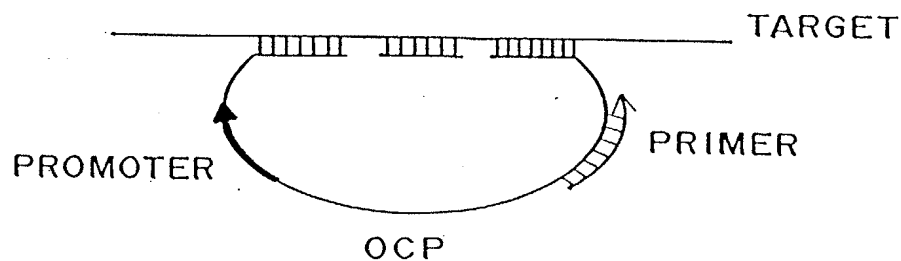
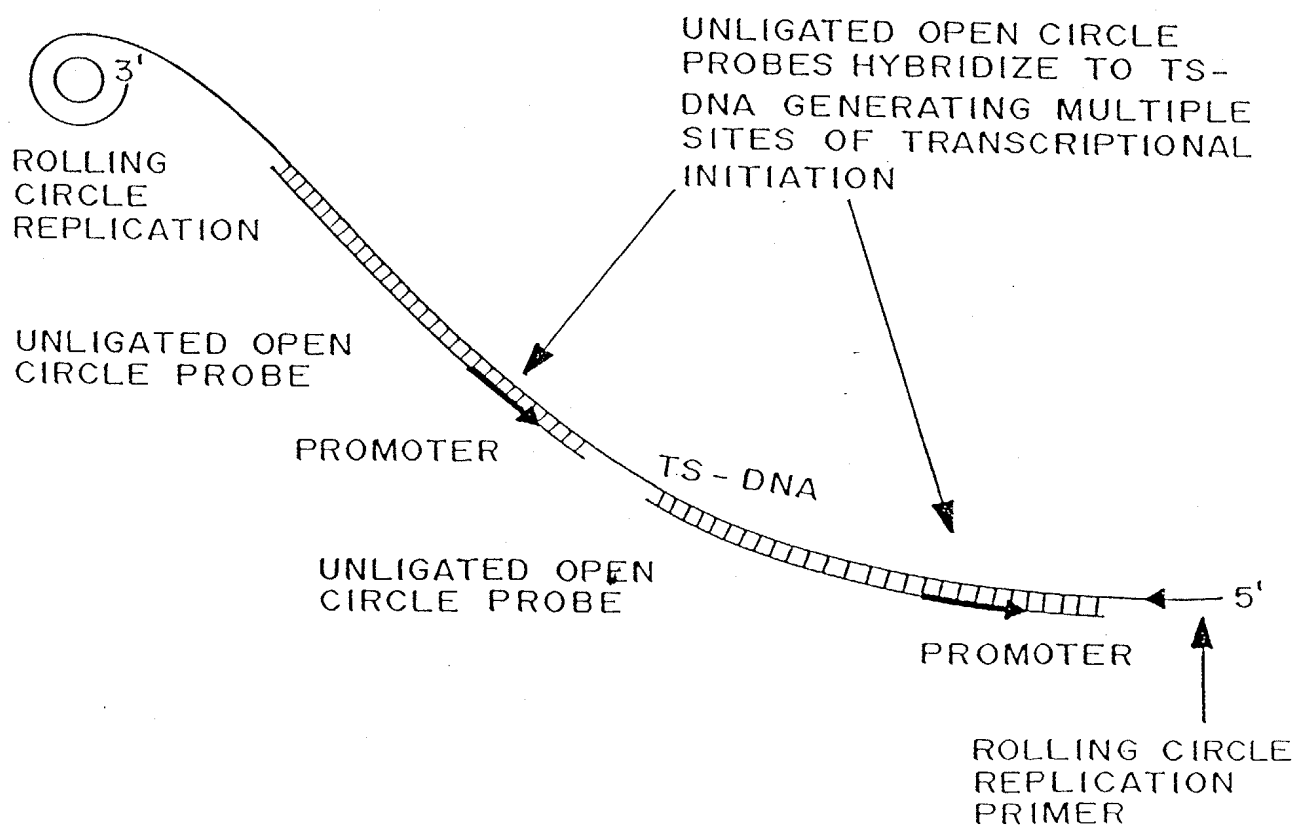


FIG. 8



2002	10
2003	10
2004	10
2005	10
2006	10
2007	10
2008	10
2009	10
2010	10
2011	10
2012	10
2013	10
2014	10
2015	10
2016	10
2017	10
2018	10
2019	10
2020	10
2021	10
2022	10
2023	10
2024	10
2025	10
2026	10
2027	10
2028	10
2029	10
2030	10
2031	10
2032	10
2033	10
2034	10
2035	10
2036	10
2037	10
2038	10
2039	10
2040	10
2041	10
2042	10
2043	10
2044	10
2045	10
2046	10
2047	10
2048	10
2049	10
2050	10
2051	10
2052	10
2053	10
2054	10
2055	10
2056	10
2057	10
2058	10
2059	10
2060	10
2061	10
2062	10
2063	10
2064	10
2065	10
2066	10
2067	10
2068	10
2069	10
2070	10
2071	10
2072	10
2073	10
2074	10
2075	10
2076	10
2077	10
2078	10
2079	10
2080	10
2081	10
2082	10
2083	10
2084	10
2085	10
2086	10
2087	10
2088	10
2089	10
2090	10
2091	10
2092	10
2093	10
2094	10
2095	10
2096	10
2097	10
2098	10
2099	10
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2101	10
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2103	10
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2126	10
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2129	10
2130	10
2131	10
2132	10
2133	10
2134	10
2135	10
2136	10
2137	10
2138	10
2139	10
2140	10
2141	10
2142	10
2143	10
2144	10
2145	10
2146	10
2147	10
2148	10
2149	10
2150	10
2151	10
2152	10
2153	10
2154	10
2155	10
2156	10
2157	10
2158	10
2159	10
2160	10
2161	10
2162	10
2163	10
2164	10
2165	10
2166	10
2167	10
2168	10
2169	10
2170	10
2171	10
2172	10
2173	10
2174	10
2175	10
2176	10
2177	10
2178	10
2179	10
2180	10
2181	10
2182	10
2183	10
2184	10
2185	10
2186	10
2187	10

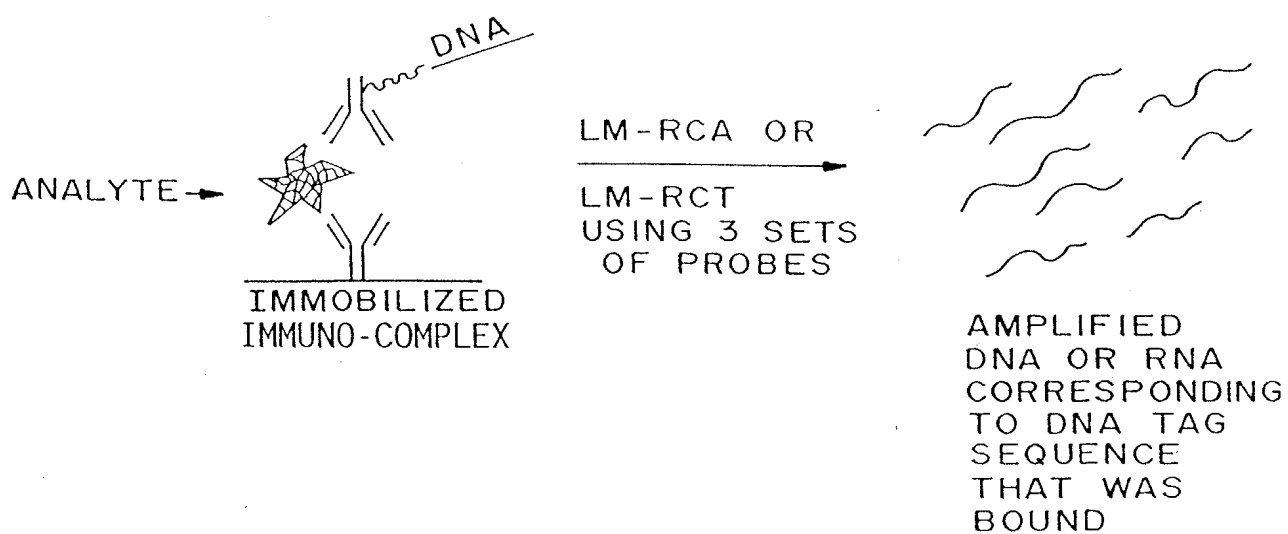
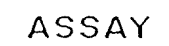
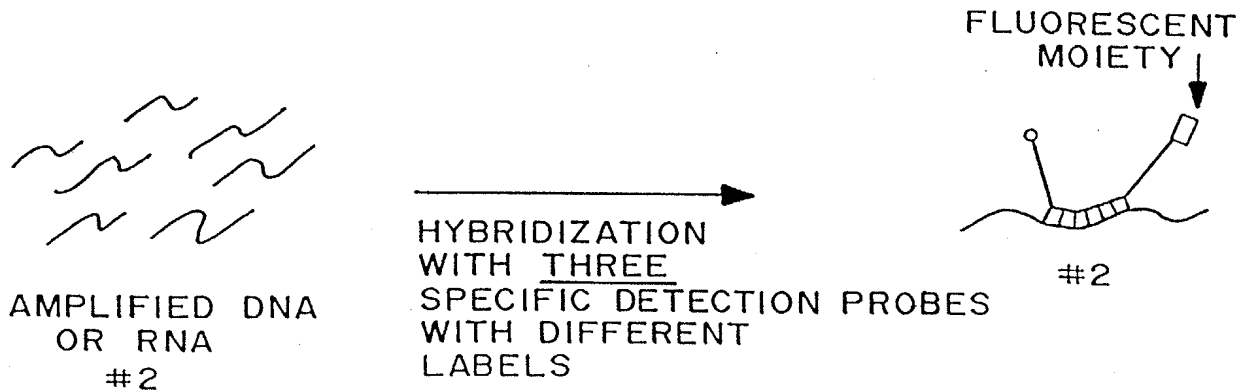


FIG. 9

FIG. 10

DETECTION EXAMPLE



DETECTION EXAMPLE

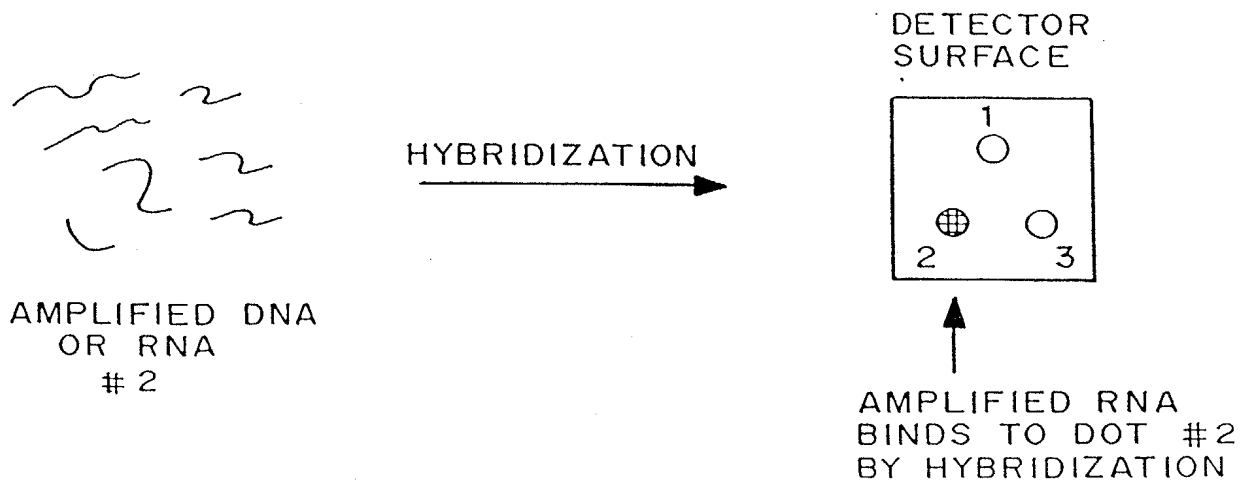
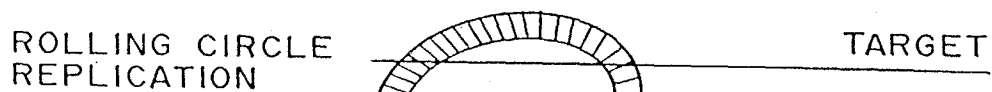
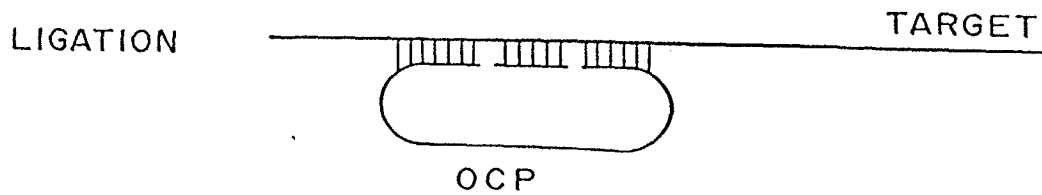


FIG. 11a



SECONDARY DNA STRAND
DISPLACEMENT PRIMER (P2)
IS PRESENT AT HIGH
CONCENTRATION AND
HYBRIDIZES RAPIDLY TO
TS-DNA.

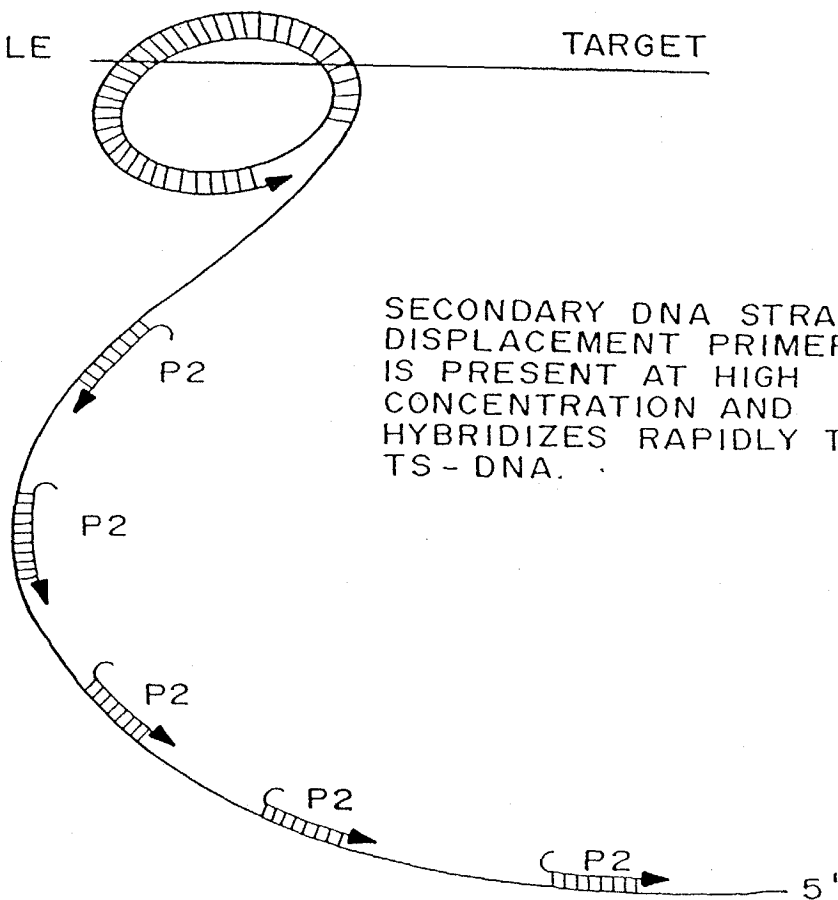
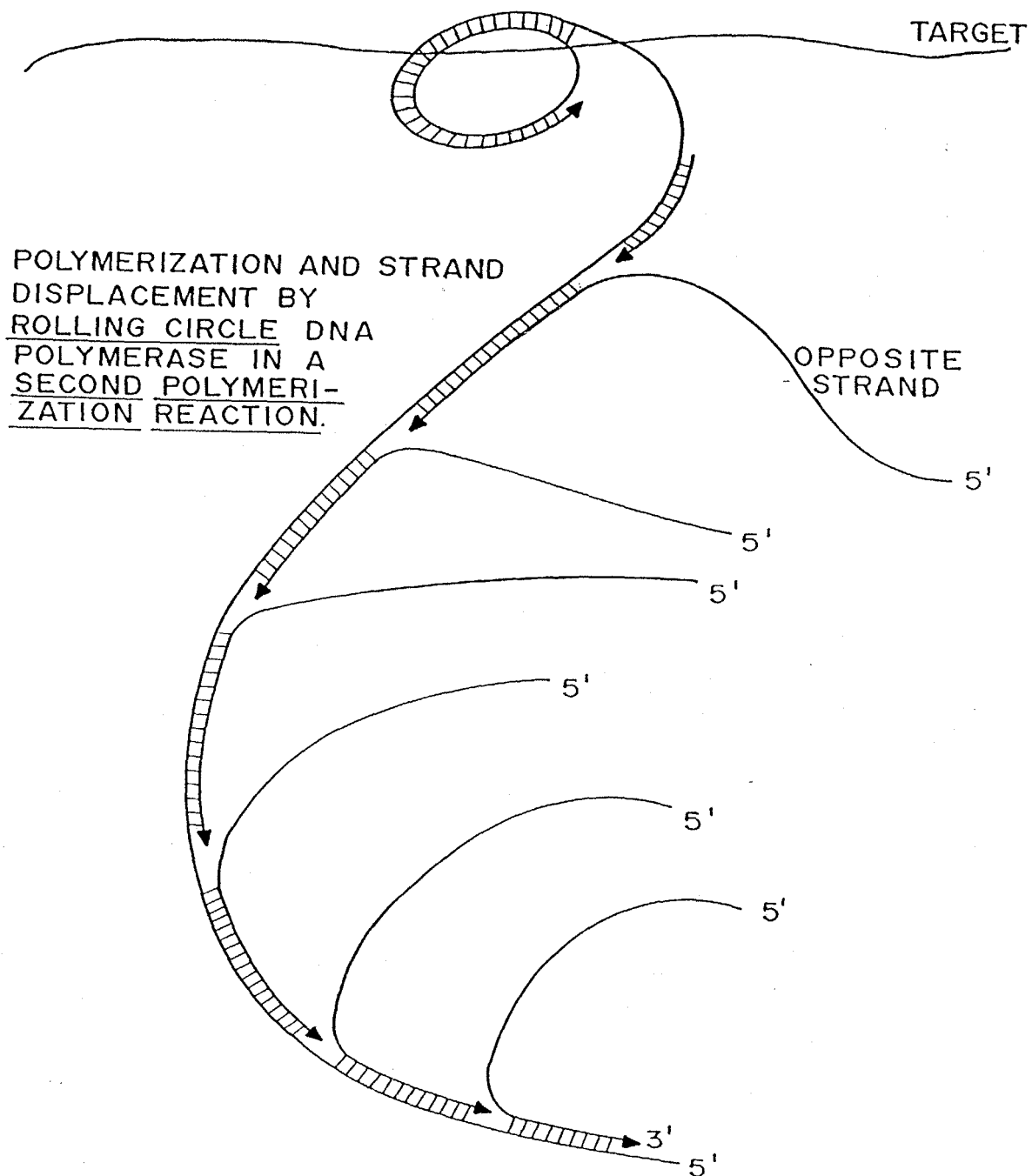
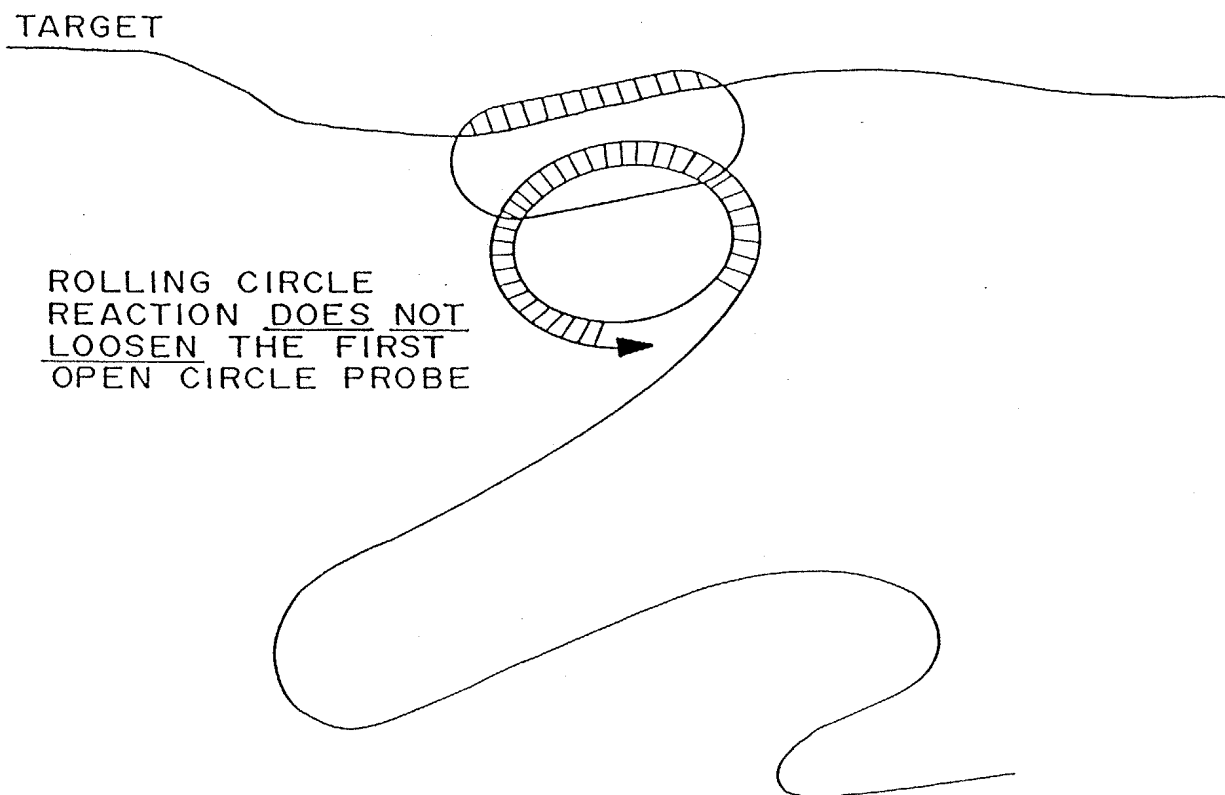
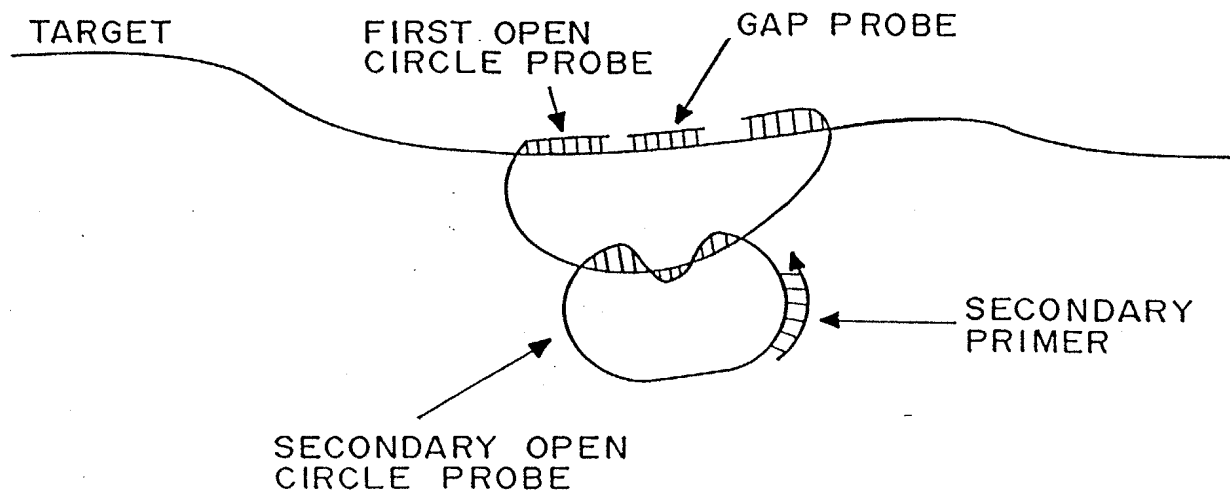


FIG. 11b



40115
FIG. 12



STRAND DISPLACEMENT CASCADE REACTION

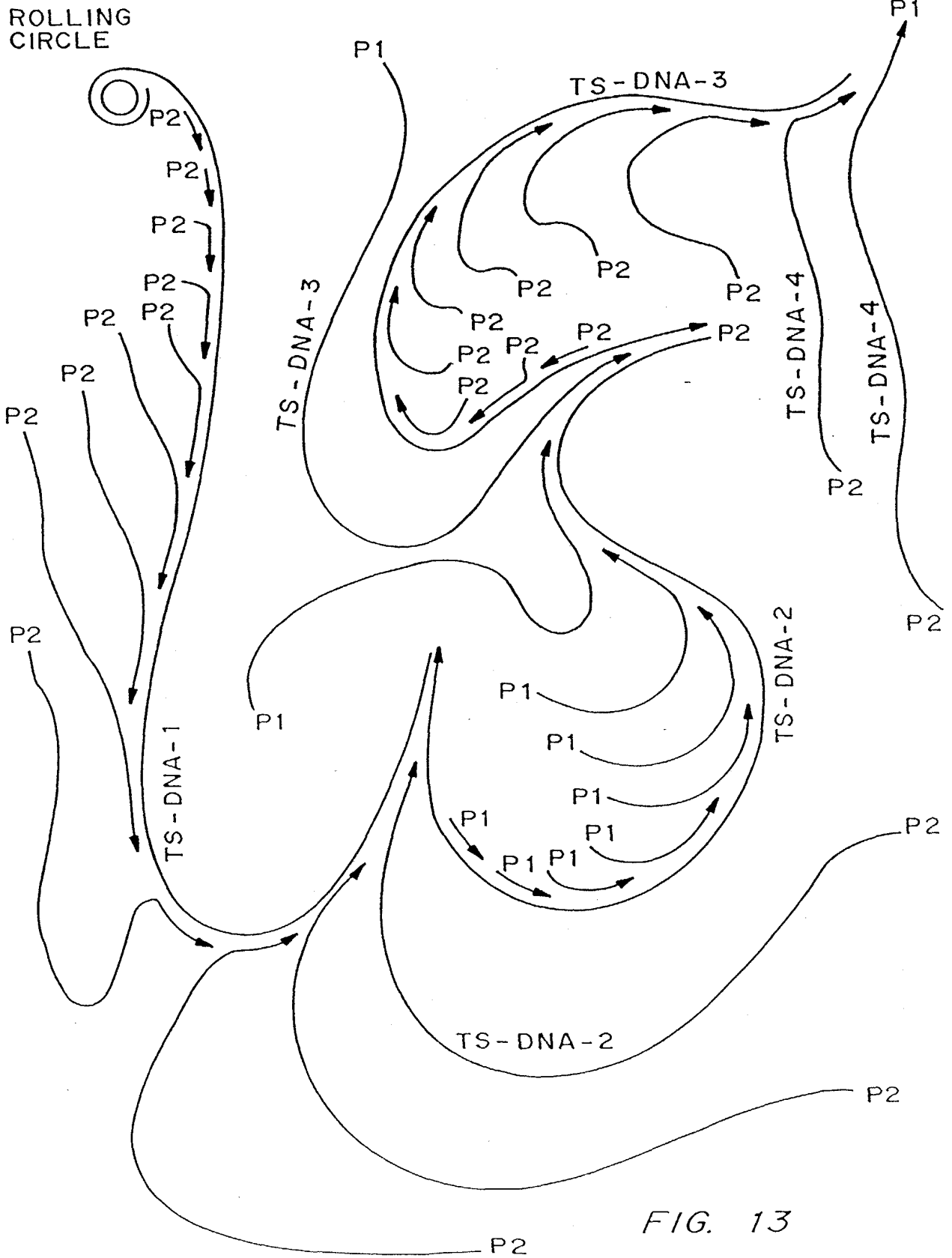


FIG. 13

OPPOSITE STRAND AMPLIFICATION

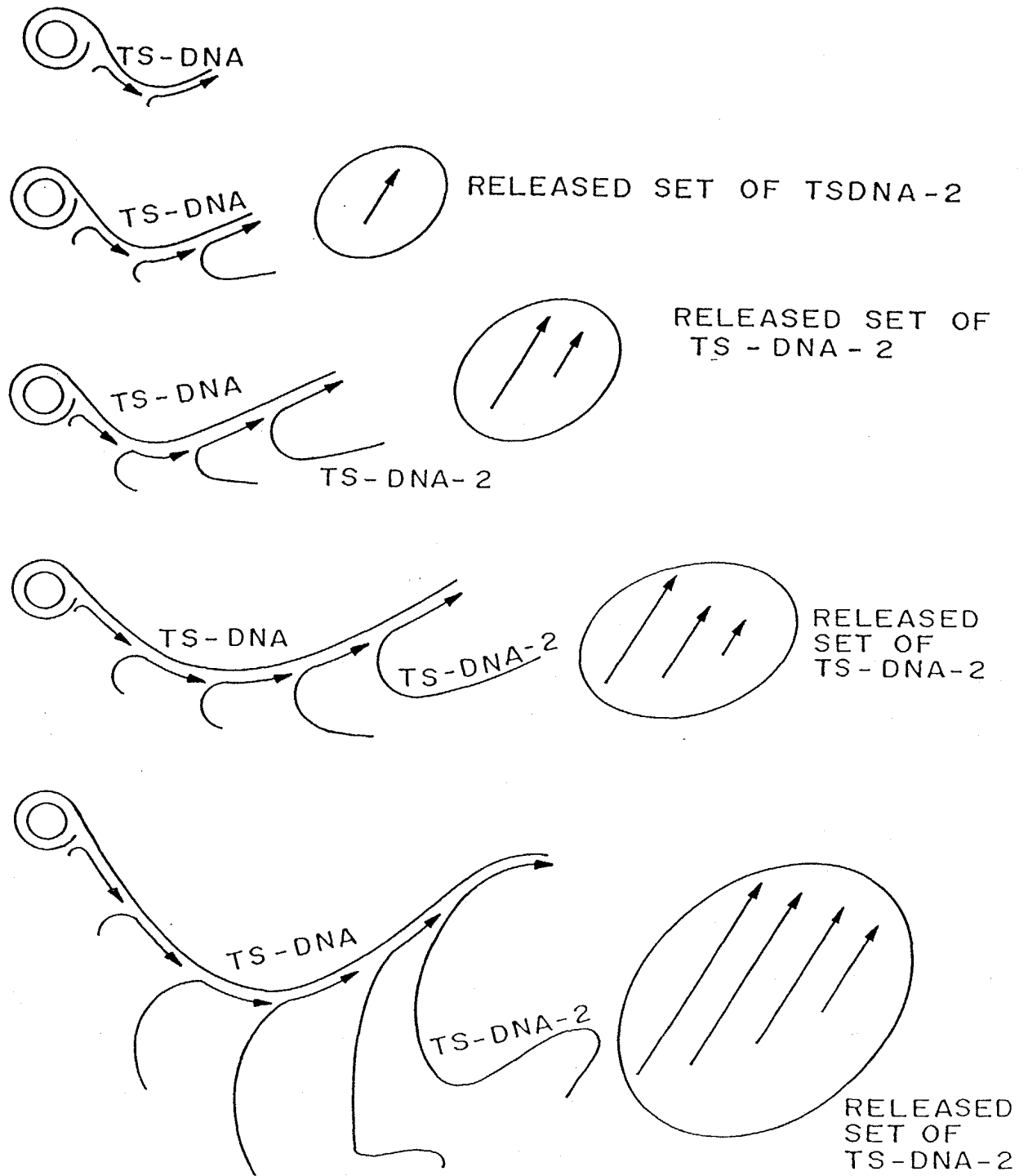


FIG. 14